INTERNATIONAL SEARCH REPORT

PCT/IB2004/050009

| A. CLASSII IPC 7 | G10L19/00 H04N1/32 G11B20/00 | O G06T1/00 | | | |
|--|---|--|--------------------------------------|--|--|
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| According to International Patent Classification (IPC) or to both national classification and IPC | | | | | |
| B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) | | | | | |
| IPC 7 | | n symbols) | | | |
| Documentat | ion searched other than minimum documentation to the extent that su | ch documents are included in the fields se | arched | | |
| Electronic da | ata base consulted during the international search (name of data base | e and, where practical search terms used | | | |
| EPO-In | ternal, INSPEC, WPI Data | | | | |
| C. DOCUME | C. DOCUMENTS CONSIDERED TO BE RELEVANT | | | | |
| Category ° | Citation of document, with indication, where appropriate, of the rele | vant passages | Relevant to claim No. | | |
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| X | J. FRIDRICH, M. GOLJAN AND R. DU: "Lossless Data Embedding for All Formats" PIE, SECURITY AND WATERMARKING OF MULTIMEDIA CONTENTS IV, vol. 4675, January 2002 (2002-01) 572-583, XP002277088 SAN JOSE, CA, USA cited in the application * section 2. General methodology lossless data embedding in digita objects* | , pages for | 1,9,10, 12,13, 17,24, 27,28 | | |
| Further documents are listed in the continuation of box C. | | | | | |
| *A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed *&* | | T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combined with one or more other such documents, such combination being obvious to a person skilled in the art. &* document member of the same patent family | | | |
| Date of the actual completion of the international search Date of mailing of the international search report | | | arch report | | |
| 6 May 2004 | | 07/06/2004 | | | |
| Name and mailing address of the ISA | | Authorized officer | | | |
| European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 | | Quélavoine, R | | | |

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| C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT | | | |
| ategory ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. | |
| X | FRIDRICH J ET AL: "INVERTIBLE AUTHENTICATION" PROCEEDINGS OF THE SPIE, SPIE, BELLINGHAM, VA, US, vol. 4314, 22 January 2001 (2001-01-22), pages 197-208, XP001189306 ISSN: 0277-786X *section 4. Invertible authentication using lossless bit-plane compression* | 1,12,13, 17,24, 27,28 | |
| P,X | using lossless bit-plane compression* M. VAN DER VEEN, F. BRUEKERS, A. VAN LEEST AND S. CAVIN: "High capacity reversible watermarking for audio" SPIE, SECURITY AND WATERMARKING OF MULTIMEDIA CONTENTS V, vol. 5020, 20 January 2003 (2003-01-20), pages 1-11, XP002277089 SANTA CLARA, CA, USA the whole document | 1-28 | |
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